

APPENDIX A

ISSUED PATENTS

Patent No.	Title	Inventor	Reel/ Frame No.	Date of Recordation
5,381,054	Multiple input comparator circuit for a switched resistive network	Standley; David L	013699/0267	01/29/2003
5,440,079	Object-background discrimination using analog VLSI circuit	Mathur , et al.	013699/0267	01/29/2003
5,502,299	Current ratio circuit for multi-color imaging	Standley; David L.	013699/0267	01/29/2003
5,572,074	Compact photosensor circuit having automatic intensity range control	Standley; David L.	013699/0267	01/29/2003
5,572,643	Web browser with dynamic display of information objects during linking	Judson; David H.	011911/0220 (ZING)	06/19/2001
5,706,369	Base-n resolution converter	Wang , et al.	013699/0267	01/29/2003
5,892,540	Low noise amplifier for passive pixel CMOS imager	Kozlowski , et al.	013699/0267	01/29/2003
5,929,434	Ultra-low noise high bandwidth interface circuit for single-photon readout of photodetectors	Kozlowski , et al.	013699/0267	01/29/2003
5,932,875	Single piece integrated package and optical lid	Chung , et al.	013699/0267	01/29/2003
6,040,567	Method and device for controlling fast periodic motion	Neher , et al.	013496/0589	08/14/2002
6,153,955	Implementing comprehensive PID engine with single bit adder	Cheung , et al.	<u>013496/0589</u>	08/14/2002
6,256,350	Method and apparatus for low cost line-based video compression of digital video stream data	Bishay , et al.	<u>013496/0589</u>	08/14/2002
6,271,884	Image flicker reduction with fluorescent lighting	Chung , et al.	<u>013496/0589</u>	08/14/2002

Patent No.	Title	Inventor	Real Frame No.	Date of Recordation
6,305,853	Camera utilizing film and reflective imager	Bishay , et al.	013496/0589	08/14/2002
6,437,826	Digital video teleconferencing camera system having a base	Arnold; Thomas A.	013209/0732	08/22/2002
6,441,453	Clear coating for digital and analog imagers	Tindle; Gary D	011805/0861 (CONEXANT)	05/09/2001
6,441,857	Method and apparatus for horizontally scaling computer video data for display on a television	Wicker , et al.	013496/0589	08/14/2002
6,462,781	Foldable teleconferencing camera	Arnold; Thomas A.	013209/0732	08/22/2002
6,486,522	Light sensing system with high pixel fill factor	Bishay , et al.	013496/0589	08/14/2002
6,493,030	Low-noise active pixel sensor for imaging arrays with global reset	Kozlowski , et al.	013496/0589	08/14/2002
6,498,331	Method and apparatus for achieving uniform low dark current with CMOS photodiodes	Kozlowski , et al.	013496/0589	08/14/2002
6,507,364	Edge-dependent interpolation method for color reconstruction in image processing devices	Bishay , et al	012273/0217 (CONEXANT)	11/05/2001
6,532,040	Low-noise active-pixel sensor for imaging arrays with high speed row reset	Kozlowski , et al.	012273/0217 (CONEXANT)	11/05/2001
6,534,796	Integrated circuit optics assembly unit	Bishay , et al.	013496/0589	08/14/2002
6,535,247	Active pixel sensor with capacitorless correlated double sampling	Kozlowski , et al.	013496/0589	08/14/2002
6,563,363	Switched capacitor comparator network	Tay; Hiok-Nam	013851/0225	03/17/2003
6,580,456	Programmable timing generator	Jacobs; William S.	009594/0366 (SIERRA IMAGING)	11/09/1998
6,587,142	Low-noise active-pixel sensor for imaging arrays with high speed row reset	Kozlowski , et al.	013496/0589	08/14/2002

Patent No.	Title	Inventor	Reel/Frame No.	Date of Recordation
6,593,607	Image sensor with enhanced blue response and signal cross-talk suppression	Hsieh; Blay-Cheng	013496/0589	08/14/2002
6,597,394	Programmable image transform processor for digital image processing	Duncan , et al.	009591/0524 (SIERRA IMAGING)	11/09/1998
6,617,562	CMOS imager with discharge path to suppress reset noise	Mann; Richard A.	011232/0239 (CONEXANT)	10/05/2000
6,639,204	Solid state color imager and method of manufacture	Mann; Richard A.	013851/0225	03/17/2003
6,677,996	Real time camera exposure control	Chung , et al.	013496/0589	08/14/2002
6,697,111	Compact low-noise active pixel sensor with progressive row reset	Kozlowski , et al.	013851/0225	03/17/2003
6,744,032	Arrangement of microlenses in a solid state image sensor for improving signal to noise ratio	Tay; Hiok-Nam	013851/0225	03/17/2003
6,617,562	CMOS imager with discharge path to suppress reset noise	Mann; Richard A.	011232/0239	10/05/2000

PATENT APPLICATIONS

Application No.	Title	Inventor	Reel/Frame No.	Date of Recordation
09/034,819	Method and apparatus for compensating for geometric distortion caused by a lensing system in a digital image detector	Pine, Joshua I.	010885/0931	06/02/2000
09/062,343	CMOS imaging apparatus	Ferry et al.		04/17/1998 (filed)

Application No.	Title	Inventor	Reel/Frame No.	Date of Recordation
09/268,913	Low noise CMOS active-pixel sensor for imaging arrays with high speed global or row reset	Kozlowski et al.		03/16/1999 (filed)
09/371,491	Imager with orientation correction capabilities	Pine, Josh I.	013496/0589	08/14/2002
09/407,395	Color imager without filter	Bishay et al.		9/28/1999 (filed)
09/407,501	An integrated camera module	Bishay et al.	013496/0589	08/14/2002
09/407,556	Hybrid multiple sensor device	Bishay et al.	013496/0589	08/14/2002
09/408,198	Infrared communication system utilizing receiver with multiple photo-sensors	Chung, Randall M.	013496/0589	08/14/2002
09/410,210	Active pixel sensor with multiplexed photosensing elements readout scheme	Hseih, Biay-Cheng		09/30/1999 (filed)
09/538,889	Automatic gain control algorithm for pc-based video camera	Dong, Blake, M.	013496/0589	08/14/2002
09/557,454	CMOS JFET amplified pixel	Kozlowski et al.	013496/0589	08/14/2002
09/672,987	Selectable resolution image capture system	Pine, Joshua I.	013496/0589	08/14/2002
09/676,538	Combined digital image across talk correction and interpolation	Najand, Shahriar	011178/0767	09/29/2000
09/676,551	NO FILE			
09/676,998	Exposure control in electromechanical imaging devices	Pine, Joshua I.	013496/0589	08/14/2002
09/677,227	NO FILE			
09/679,854	NO FILE			
09/680,036	NO FILE			
09/731,640	Imaging system for minimizing pixel defects	Pine, Joshua I.	013496/0589	08/14/2002
09/733,788	Enhanced resolution mode using color image capture device	Pine, Joshua I.	013496/0589	08/14/2002

Application No.	Title	Inventor	Reel/Frame No.	Date of Recordation
09/742,786	Automatic detection and correction of pixel defects in solid state imagers	Pine, Joshua I.	013496/0589	08/14/2002
09/795,033	imaging system having selectable interpolation processing	Pine, Joshua I.	013496/0589	08/14/2002
09/801,401	Imaging system having an image memory between the functional processing system	Pine, Joshua I.	013496/0589	08/14/2002
09/815,584	Imaging system having adaptive clocking in response to processing state	Pine, Joshua I.	013496/0589	08/14/2002
09/823,941	NO FILE			
09/852,397	Chip On Board (COB) package for CMOS Imager	Tindle, et al.	013496/0589	08/14/2002
09/882,576	NO FILE			
09/935,213	NO FILE			
09/935,231	Semiconductor device for isolating a photodiode to reduce junction leakage and method of formation	Mann, Richard A.	013851/0225	03/17/2003
09/949,688	Off-grid interpolation in image processing	Bao et al.	013496/0589	08/14/2002
09/977,444	NO FILE			
10/016,713	Method and article of manufacture for micro-lens resulting from multi-stage fabrication technique.	Bencuya, Selim S	014081/0620	05/16/2003
10/057,731	NO FILE			
10/072,345	Imaging system combining multiple still images for higher resolution image output	Pine, Joshua I.		10/25/2001 (filed)
10/102,042	Efficient implementation of a noise removal filter	Pan, Shien-Tai	103022/0288	06/24/2002
10/102,105	Image resolution conversion using pixel dropping	Bao et al.		03/20/2002 (filed)
10/102,410	NO FILE			
10/113,545	NO FILE			
10/119,982	Tapered threshold reset FET for CMOS imagers	Kozlowski et al.	013851/0225	03/17/2003

Application No.	Title	Inventor	Reel/Frame No.	Date of Recordation
10/136,268	NO FILE			
10/136,413	Suppressing radiation charges from reaching dark signal sensor	Mann et al.	013851/0225	03/17/2003
10/293,510	Semiconductor device for isolating a photodiode to reduce junction leakage and method of formation	Mann, Richard A.	013851/0225	03/17/2003
60/376,690	NO FILE			
60/376,748	NO FILE			
60/376,750	NO FILE			
60/376,751	NO FILE			